Operating Instructions

Digital Video Recorder

Models: DTR-6008/250CD, DTR-6016/250CD,

DTR-6008/500CD, DTR-6016/500CD, DTR-6008/750CD DTR-6016/750CD





Safety instructions

EMC class

- ▶ This video recorder (DVR) is a class A device in accordance with EN 55022.
- This device may cause interference to other equipment in domestic use. In such cases the persons operating the DVR are required to provide appropriate countermeasures, for which they themselves bear the cost.

Importance of these Operating Instructions

- Please read the safety instructions and the other information contained in the Operating Instructions before connecting up and operating the DVR.
- ▶ The Operating Instructions should be kept in a safe place for later reference.

Ambient conditions for the DVR

- ▶ The DVR should be protected against excessive heat, dust, damp and vibration.
- ► The DVR may only be operated at temperatures between +5°C and +40°C, and up to a maximum air humidity of 90%.
- ▶ The DVR may only be operated indoors, and must be protected against incursion of water and damp.

Care of the DVR

- Never switch on the DVR when damp has penetrated it. In such cases, have the DVR checked by a qualified service engineer.
- ▶ Do not place any heavy objects on the DVR.
- Never cover over the DVR's vents.
- ▶ Never insert metal objects or any other items into the vents. This may permanently damage the DVR.
- The housing may only be opened by authorised persons. Repairs may only be carried out by qualified service personnel.
- ▶ The DVR must be disconnected from the power supply before its housing is opened.

Getting started with the DVR

When laying the connecting cables, make sure no weight is placed on them, that they are not kinked or damaged, and that no damp can penetrate them.

Cleaning the DVR

- ► The housing of the DVR may only be cleaned with a damp (not wet) cloth,
- Use only a mild detergent. Do not use solvent-containing detergents or petrol. This could permanently damage the surface finish.

Spare parts

▶ Use only original spare parts from Videor Technical GmbH.

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Overview

Package contents

- Digital video recorder (DVR)
- Mains power cord
- · Operating instructions
- RAS (Remote Administration System) software on CD
- · Operating instructions for RAS software on paper and CD
- Mounting kit for cabinet installation
- · Screws for attaching SCSI Connector
- . Mounting screws and guides for installation of hard disk drives
- · Infrared remote control

Basic functions

- · Record video images using multiple cameras
- · Even-based recording start
- Video playback
- · Search for specific video sequences

Features

- MPEG-4 compression / triplex mode
- 8 or 16 loop-through inputs / VGA, S-VHS/FBAS outputs
- Audio and alarm inputs / outputs
- Max. recording speed: 400 field images per sec (PAL)
- Memory capacity 250 GB / 500 GB / 750 GB
- Maximum video resolution 720 x 576 pixels
- SCSI port for archiving / memory expansion
- Various recording criteria possible
- Archiving/image transfer via USB and CD-RW
- ATM/POS text display / 2x to 4x digital zoom
- Telemetry control functions via RS-485 port
- · Network port (Ethernet) / IR remote control

Requirements for operation

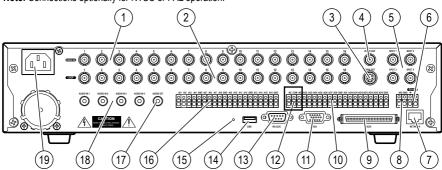
- Digital video recorder DTR connected
- At least 1 camera connected
- At least 1 monitor connected
- . Mouse connected, if DVR is to be controlled by mouse

Control options

- Front panel
- Remote Control
- Mouse
- WebGuard
- · RAS program

Connections on the rear

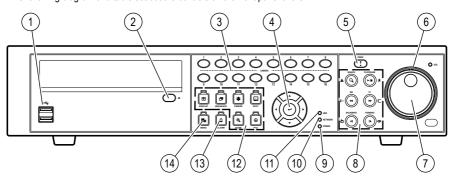
Note: Connections optionally for NTSC or PAL operation.



No.	Designation	Functions/connections	Example devices
1	VIDEO IN 1-16	Max. 16 video channels	Cameras
2	LOOP 1-16	Max. 16 loop-through video channels	Cameras
3	SVHS OUT	S-VHS output	Monitors
4	VIDEO OUT	Video output	Monitors
5	SPOT1 - SPOT4	Max. 4 video outputs	Spot monitors
6	RS-485	External interface	Keyboard, PTZ camera
7	NETWORK	Network	Network cable
8	ARI/GND	Reset alarm with external signal	Switch
9	SCSI	External storage media	Hard disk
10	AO2 - AO16	Alarm outputs for external devices	Siren, flashing light
11	VGA	PC monitor	PC monitor
12	NC, COM, NO	Relay alarm output for external device	Siren, flashing light
13	RS-232C	External interface	Modem
14	USB	External interface	Drive, mouse
15	Reset switch	Reset to factory defaults	-
16	Al1 - Al16	Alarm inputs for external devices	Sensors
17	AUDIO OUT	Audio output	Amplifier, speakers
18	AUDIO IN 1 - AUDIO IN 4	Max. 4 Audio inputs	Microphone
19	Power supply	Mains power connection	-

Front panel controls

The following diagram and table set out the controls on the front panel of the DVR:



No.	Designation	Function
1	•~	USB ports
2	_	Open built-in CD-RW writer
3	1 to 16	Select camerasEnter passwords
4	Menu navigation	Navigation and selection within the menu
5	PANIC	Start/end panic recording
6	Shuttle ring	Infinitely adjust playback speed
7	Jog dial	 Change size of frame in picture-in-picture mode Change numerical values in Setup menu Frame-by-frame playback in Play mode
8	Q > / 4 >> 4 >	Playback functions (primary assignment)
0	♣ ☆ ▷ 匚 ੴ 	PTZ camera functions (secondary assignment)
9	POWER	Power-on indicator when DVR is in operation
10	NETWORK	Indicates Ethernet or modem connection
11	HDD	Indicates hard disk operation
12	DISPLAY, SEQUENCE, FREEZE, SPOT, ZOOM, PTZ	Function buttons
13	ALARM	Reset alarmView event list
14	MENU	Open/quit menu structure

Key to controls

Function buttons

Element	Function
\blacksquare	Change display mode
ð	Sequence On/Off
*	Freeze On/OffCopying recordings in Search menu by pressing and holding down button
•	Spot monitor assignments
(PTZ camera functions On/Off
⊕,	Zoom On/Off

PTZ camera functions

Element	Function
*	Zoom in
☆	Zoom in
(>	Close-up
1	Wide-angle
ر _س ا	Save preset
❤	Load preset

\bigcirc Playback functions

Element	Function
Q	Select Search/Play functionStop playback
▶ /II	Start/pause playback
≪	Fast rewind
>>	Fast forward
∢ I	Frame-by-frame rewind
I ►	Frame-by-frame forward

Remote control functions

The following diagram and table set out the functions on the remote control:

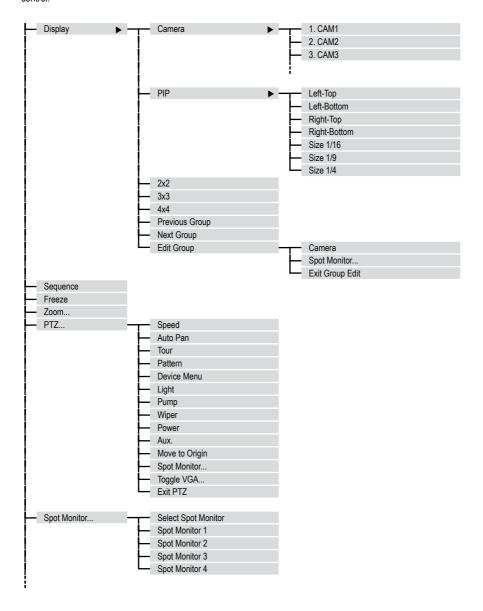
		No.	Designation	Function
Select System ID	(1)	1	SPOT 1 - 4	Spot monitor assignments
1 2 J 4 DISPLAY STOURNE FREEZE ALARM THE PROPERTY AND ALARM CAMERA	(2)	2	ALARM	Reset alarmView event list
5 6 7 8 9 9 11 12	(3)	3	1 to 16	Select camerasEnter passwords
13 14 15 16		4	◭◮▮▻◜▮◔◔	PTZ camera functions
(b) (d)	4	5	PTZ	PTZ camera functions On/Off
FOCUS PRESET ZOOM		6	ZOOM	Zoom On/Off
MENU PTE	5	7		Playback functions
72000		8	PANIC	Start/end panic recording
	6	9	Menu navigation	Navigation and selection within the menu
DIGITAL VIDEO RECORDER Remote Controller	7	10	MENU	Open/quit menu structure
		11		No function
		12	DISPLAY, SEQUENCE, FREEZE	Function buttons
		1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	1 2 3 1 2 3 3 3 3 3 3 3 3 3	1 SPOT 1 - 4 2 ALARM 3 1 to 16 4 A A A A A A A A A A A A A A A A A A

Playback functions

Element	Function
	Select Search/Play functionStop playback
	Pause playback
\triangleright	Start playback
\triangleleft	Fast rewind
	Fast forward
	Frame-by-frame rewind
	Frame-by-frame forward

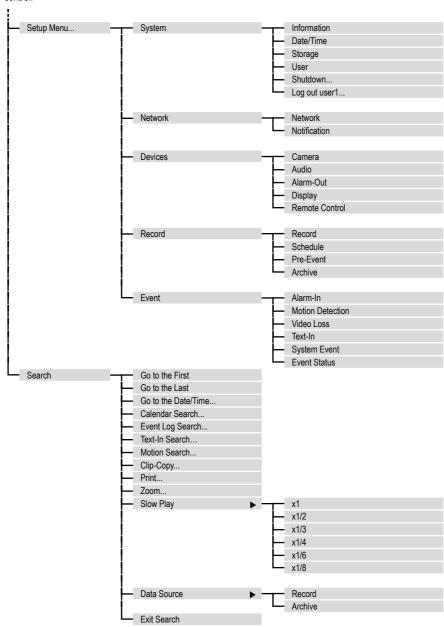
Menu overview

The following illustration shows the structure of the complete menu tree that is accessible using the mouse control:



Menu overview (continued)

The following illustration shows the structure of the complete menu tree that is accessible using the mouse control:



Accessing the menus

Accessing the Display menu

Requirement:

• The current camera image is shown in full image or quad image.

Step	Action	Access using	Key sequence/menu path
1		Device	\blacksquare
	Open Display menu	Remote Control	\blacksquare
		Mouse	Display

Access to submenu via Device/Remote Control

Submenu	Camera image	Key sequence
Change Display modes (PIP, 2x2, 3x3, 4x4)	Without frame	$\boxplus \boxplus \boxplus \boxplus$
Previous/Next Group	Without frame	4>
Edit Group	With frames	↓ > □
Change position of image-in-image	Without frame	▲ ▼
Change size of image-in-image	Without frame	Jog dial

Accessing the PTZ menu

Requirement:

- A PTZ camera is connected and configured.
- · Current camera image is shown as a full image.

Step	Action	Access using	Key so	equen	ice/menu
	Open PTZ menu	Device	(>	
1 Result: Menu of the configured PTZ camera is shown.	Result: Menu of the configured PTZ	Remote Control	PTZ	>	MENU
	camera is shown.	Mouse	PTZ		

Accessing the menus, continued

Accessing the Setup menu

Requirement:

• The current camera image is shown in full image or quad image.

Step	Action	Access using	Key sequence/menu path
	Open Setup Menu	Device	
1	1 Result: Prompt for user name and password.	Remote Control	MENU
		Mouse	Setup Menu
	Log in as user.		
	User name: admin		
2	Password: (blank)		
	Note: Use default access data only for first-time access.		

Accessing the Search menu

Requirement:

• The current camera image is shown in full image or quad image.

Step	Action	Access using	Key sequence/menu path
Open Search menu Result: Search for recorded images is activated.	Device	Q > 📳	
	Result: Search for recorded images is	Remote Control	☐ > MENU
	activated.	Mouse	Search

Getting started

Checklist for DVR operation

Step	Action	Menu path
1	Connect peripheral devices as per planned setup.	
2	Specify menu language.	Setup Menu > System > Information
3	Adjust date and time.	Setup Menu > System > Date/Time
4	Set up user.	Setup Menu > System > User
5	Set up network and desired notification channels (optional).	Setup Menu > Network >
6	Register peripherals with DVR.	Setup Menu > Devices >
7	Set up event types and associated responses.	Setup Menu > Event >
8	Set up recording parameters and schedule.	Setup Menu > Record >

Connecting the remote control and DVR

The remote control and DVR can be assigned an ID, because the ID of each DVR in the network must be unique. The DVR will then only respond to the remote control with the matching ID.

- If the system ID in the DVR is 0, it will respond to the remote control regardless of the remote's ID.
- If the system ID in the DVR is not 0, you must set the ID of the remote control identically.

Step	Action	Menu path
1	Set DVR system ID.	Setup Menu > System > Information
2	Match remote control to system ID by pressing ID button on remote control.	
3	Select relevant number on remote control.	

Getting started (continued)

Switching on the DVR

Requirement:

• The start-up preparations are complete.

Step	Action
1	Plug in DVR mains plug.
2	Switch on monitor.
2	Result: System starts up automatically and is ready to use.

Switching off the DVR

Requirement:

• You have accessed the Setup menu.

Step	Action	Menu path
1	Shut down the system. Result: System shuts down automatically.	Setup Menu > System > Shutdown
2	After shutdown, disconnect the mains plug.	

Administration

Saving your system setup

You can save your DVR's setup data, including its network configuration.

Requirement:

· USB memory stick

Step	Action	Menu path
1	Insert a USB memory stick into one of the USB ports.	
2	Export your setup.	Setup Menu > System > Information > Setup > Export
3	Specify a file name.	
4	Export your setup.	Export

Loading your system setup

You can load your stored DVR system setup with or without its network configuration.

Requirement:

• USB memory stick with stored setup

Step	Action	Menu path
1	Insert a USB memory stick into one of the USB ports.	
2	Import your setup.	Setup Menu > System > Information > Setup > Import
3	Select the file name and, where appropriate, the network configuration.	
4	Import your setup.	Import

Deleting recordings

You can only delete all your recordings together. It is not possible to delete recordings from a specific time period.

Step	Action	Menu path
		Setup Menu > System > Information > Clear All Data
1	Delete all recordings.	or Setup Menu > System > Storage > Information > Information > In Use > Clear

Administration (continued)

Downloading software updates

You can download software updates for your DVR from a USB memory stick.

Requirement:

USB memory stick with latest software release

Step	Action	Menu path
1	Insert a USB memory stick into one of the USB ports.	
2	Start update.	Setup Menu > System > Information > Upgrade
3	Install new release.	

Hiding from specific users

You can hide video images and camera data according to the preset user rights.

Step	Action	Menu path
1	Set camera Covert mode.	Setup Menu > Devices > Camera > Settings
2	Cancel 'Covert Camera View' access for specific users (groups).	Setup Menu > System > User

Restoring factory defaults

Before restoring the factory defaults, you should export your current system settings in case you need to reimport them later. (see Saving your system setup and Loading your system setup)

Step	Action
1	Shut down the system.
2	Disconnect the mains plug.
3	Push a paper clip into the Reset button (on the rear of the DVR) and hold it there.
4	Plug in the mains plug.
5	Wait for all the LEDs to flash 5 times (about 30 seconds).
6	Withdraw the paper clip.

Administration (continued)

Mirroring of hard disks

Mirroring of hard disks prevents the loss of records in the event of a hard disk defect.

Requirements:

- The Digital Video Recorder has at least 2 or 3 hard disks installed
- The destination hard disk is identical to the source hard disk in type and memory capacity
- The source-hard disk and the destination hard disk are not used for archiving records.

Step	Action	Menu path
1	Formatting the source hard disk for recording.	Setup Menu > System > Storage> Information > Format > Record
2	Select the source hard disk.	Setup Menu > System > Storage> Information > Mirror 1/2 > Source
3	Select the destination hard disk.	Setup Menu > System > Storage> Information > Mirror 1/2 > Dest.
4	Start Mirroring. Results:	Start
	 The source hard disk and destination hard disk are synchronised (approx. 40 minutes for 10 GB). 	
	All data on the destination hard disk are deleted.	
	All records are written to both hard disks.	
	Interrupting Mirroring. Results:	Stop
	The status of the destination hard is set to:	Don't use
5	 The hard disk can now only be used for searching for records. 	
	 If the hard disk is to be used for records or archiving, it must be formatted. 	Setup Menu > System > Storage> Information > Format > Format
6	Continuing Mirroring - see Starting Mirroring.	Start

Administration (continued)

Determining the memory requirement of a recording

The amount of memory recorded video sequences will take up depends on the following factors:

- Picture quality
- number of images per second
- duration

The memory requirement is calculated by this formula:

Memory requirement = picture size x duration of recording x images per second

Calculation example: CIF resolution (PAL):

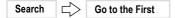
Picture	Picture Duration of size recording	Duration of	Approx. memory space		
quality		recording	5 images/s	10 images/s	25 images/s
Basic	2.4 kB	24 hours	1.04 GB	2.07 GB	5.18 GB
Standard	4.8 kB	24 hours	2.07 GB	4.15 GB	10.37 GB
High	9.6 kB	24 hours	4.15 GB	8.29 GB	20.74 GB
Very High	14.4 kB	24 hours	6.22 GB	12.44 GB	31.10 GB

2Calculation example: 2CIF resolution (PAL):

Picture	Picture Duration of		Approx. memory space		
quality	size	recording	5 images/s	10 images/s	25 images/s
Basic	4.8 kB	24 hours	2.07 GB	4.15 GB	10.37 GB
Standard	9.6 kB	24 hours	4.15 GB	8.29 GB	20.74 GB
High	19.2 kB	24 hours	8.29 GB	16.59 GB	41.47 GB
Very High	28.8 kB	24 hours	12.44 GB	24.88 GB	62.20 GB

Searching for recordings

Find first stored recording



Find last stored recording



Find recording by date and time



Calendar search

For each camera the calendar search indicates:

- · the days from which there are recordings
- the time ranges of recordings on those days



Event log search

The event log search enables you to search for events based on specific criteria, such as:

- · movements recorded by a specific camera
- · alarm from a specific alarm input
- System events



Text-in search

The text-in search enables you to search for recordings based on specific text inputs.



Motion search

The motion search function can detect movements in recordings within defined zones for one camera. 2 types of motion search are possible:

- Motion search: Search for movement in a defined zone.
- Museum search: Search for movement of a defined object.



Copying recordings

Recordings can be written to a CD or copied to a USB memory stick.



Using calendar search

Performing a calendar search

Step	Action	Menu path
1	Open calendar search. Result: Calendar and time line are displayed.	Search > Calendar Search
2	Select day and time	
3	Confirm input.	Go

Search	$ \Rightarrow $	Calendar Search

Term	Symbol	Meaning
		Date displayGrey: No recording availableWhite: Recording available
		Hours display • White: Recording available
Select a Segment	•	If the date and time on the DVR have been changed (such as when switching to Summer time) there may be multiple recordings for one time from the same camera. They are stored in separate segments.

Using event log search

Performing an event log search

Step	Action	Menu path
1	Open event log search. Result: The result of the last search is displayed.	Search > Event Log Search
2	Define criteria.	Option
3	Confirm input. Result: List of search results is displayed.	Search
4	Select desired entry from list.	

Search			
Term	Symbol	Meaning	
From First	<u> </u>	Start date	
To Last	<u> </u>	End date	
Check Time Overlap		Activates a system prompt if there are multiple recordings for the same time range	
Alarm-In		Alarm inputs in response to which a search for events is to start	
Motion		Cameras on which to search for motion detection	
Video Loss		Cameras on which to search for video loss	
Text-In		Text input devices on which to search for events	
Record Channels		Cameras on which to search for events	
	\bigcirc	Search for system events: Setup Menu > Event > System Event > Actions	

Using text-in search

Performing a text-in search

Step	Action	Menu path
1	Open text-in search.	Search > Text-In Search
'	Result: The result of the last search is displayed.	Ocaron > Text-in Ocaron
2	Define text inputs.	Option
2	Confirm input.	Coord
3	Result: List of search results is displayed.	Search
4	Select desired entry from list.	

Search	n Search ☐	> Option
Term	Symbol	Meaning
From First	✓	Start date
To Last	✓	End date
Channels		Text input devices on which to search for events
		Type of text input:
		Any Text-In Product
		Generic Text
		Epson
No.	\checkmark	Numbers of text elements to search for
Keyword		Text element
Case Sensitive	\checkmark	Makes search case-sensitive

Using motion search

Performing a motion search

Step	Action	Menu path
1	Display desired camera in single frame.	Display > Camera >
2	Open motion search.	Search > Motion Search
3	Enter settings for motion search.	Option
4	Confirm input. Result: List of search results is generated.	Search
5	Select desired entry from list.	

Search 🖒	Motion Search	C) Option			
Term	Symbol	Meaning			
From First	✓	Start date			
To Last	✓	End date			
		Type of search:			
Туре	•	Motion Search Search for movement in a defined zone			
		Museum Search Search for movement of a defined object.			
Zone		Definition of motion-sensitive zones for motion search or museum search: See "Zone" on page 46.			
		Sensitivity of motion detection of:			
		1 (Dull)			
Sensitivity		2			
Sensitivity		3			
		4			
		5 (Sensitive)			
Min. Blocks		Motion search only (not museum search): Specify in how many motion-sensitive blocks motion must be detected as a minimum to trigger an alarm			

Copying recordings

Copying recordings to CD or USB memory stick

Step	Action	Menu path
1	Find desired recordings. Note: Make a note of the data of the recordings you want to copy.	Search >
2	Define settings.	Search > Clip-Copy
3	Start copying. Result: The recordings are copied.	Start

Search \Box	Clip-Copy	
Term	Symbol	Meaning
Data Source		Record
From First	<u> </u>	Start date
To Last	<u></u>	End date
Channels		Assignment of cameras from which recordings are to be copied
Password		Use password, if desired
		Destination medium:
		Internal CD-RW
Dest.		USB-CD-RW
Dest.		1. USB Storage
		2. USB Storage
		3. USB Storage
File name		Name of file on destination medium
Status		Copy status

Menu descriptions - Setup menu

The Setup menu has the following sub-menus:

System menu



On the "System" menu

- · the basic settings are made
- · users are administered
- the system is shut down.

Network menu



On the "Network" menu the network settings are made. Network access provides access to all the functions of the DVR via

- WebGuard, same access using Internet Explorer
- · RAS (Remote Administration System), independent of Internet Explorer

The DVR can be configured so that alarms trigger a notification by e-mail or notify an RAS.

Devices menu



On the "Devices" menu the connected peripheral devices are configured. Possible peripherals are:

- Cameras
- Microphones and speakers (through amplifier)
- · Sirens and signal lamps
- Monitors
- Remote control for PTZ

Record menu



On the "Record" menu the following settings are made:

- · Recording quality
- Timer control
- · Duration of pre-event recording
- · Schedule and method of archiving

Event menu



On the "Event" menu the following settings are made:

- Assignment of alarm inputs to alarms
- · Configuration of motion-sensitive zones individually for each camera
- Definition of text input device and assignment to alarms
- Response to undesirable events

The event status is additionally displayed.

Setup menu

System - Information

On the "Information" menu

· basic information is entered and displayed

Setup Menu... System System Information

- software updates are installed
- recorded data are deleted as required

, ,		
Term	Symbol	Meaning
Site		Location of DVR
System ID		Identifier for remote control The remote control and DVR must be set to the same ID. If the system ID in the DVR is 0, it will respond to the remote control regardless of the remote's ID.
Language	•	Menu language
Version		Version of DVR software
Upgrade		Starts installing latest version of software via USB port
Import		Import setup
Export		Export setup
Show System Log		Show log of all actions and events
Recorded Data		
From		Date of oldest recording
То		Date of newest recording
Clear All Data		Deletes all stored data

System - Date/Time

On the "Date/Time" menu

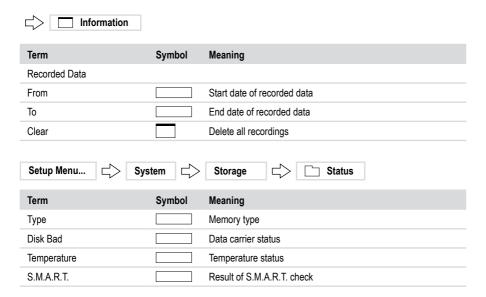
- time and date settings are made
- dates of public holidays are entered
- time synchronisation is configured.

Setup Menu	System \Rightarrow	Date/Time
Term	Symbol	Meaning
Date		Date
Format	•	Date display format
Time		Time
Format	•	Time display format
Time Zone	•	Local time zone
Use Daylight Saving Time	\checkmark	Activates use of summertime Daylight Saving Time
Setup Menu	System	Date/Time
Term	Symbol	Meaning
Term No.	Symbol	Meaning Number of entered public holiday
	Symbol	•
No.		Number of entered public holiday
No. Date		Number of entered public holiday Date of each desired public holiday
No. Date Setup Menu	System -	Number of entered public holiday Date of each desired public holiday Date/Time
No. Date Setup Menu	System -	Number of entered public holiday Date of each desired public holiday Date/Time
No. Date Setup Menu Term Automatic Sync.	System Symbol	Number of entered public holiday Date of each desired public holiday Date/Time
No. Date Setup Menu Term Automatic Sync. Time Server	System Symbol	Number of entered public holiday Date of each desired public holiday Date/Time Time Sync Meaning Activates synchronisation with time server IP address of time server

System - Storage

On the "Storage" menu the status and usage of the available storage media is displayed.

Setup Menu	□ System □ □	> Storage \Box	Information		
Term	Symbol	Meaning			
Туре		Type of storage media	Type of storage medium		
Capacity		Size of storage mediu	m		
Format		Storage medium usag	ge >>		
Information		Time range of recorde	ed data >>		
Mirror 1/2					
Source	•	Source hard disk			
Dest.	•	Destination hard disk			
Start		Starts the Mirroring			
Form		M			
Term	Symbol	Meaning			
		Use of storage medium:			
Use as	•	Record			
		Archive			
		Not using			
		Activating permits:			
Partition		CD/DVD burn	Reserves a data buffer as a separate partition. This is essential for burning CDs, and must be activated for a		
			storage medium with "Record" usage.		



System - User

Clip-Copy

On the "User" menu the user groups and individual users are set up.

Setup Menu Sys	stem 🖒	User
Term	Symbol	Meaning
Group & User Group field		Assignment of group access privileges Table of possible group access privileges >>
Group & User User field		Set password
+ Group		Add a new group
+ User		Add a new user Set password
Auto Login	•	User to be logged in automatically
Auto Logout	•	Time after which logged-in user is automatically logged out
Table of possible	e group acces	ss privileges
Group access privilege	Meaning	
Group access privilege Shutdown	Meaning May shut do	own the DVR
, , ,	May shut do	own the DVR a new firmware version
Shutdown	May shut do	
Shutdown Upgrade	May shut do May install a	a new firmware version
Shutdown Upgrade System Time Change	May shut do May install a May change May delete	a new firmware version the time setting
Shutdown Upgrade System Time Change Data Clear	May shut do May install a May change May delete May make o	a new firmware version e the time setting recording data
Shutdown Upgrade System Time Change Data Clear Setup	May shut do May install a May change May delete May make o May change	a new firmware version the time setting recording data changes anywhere on the Setup menu
Shutdown Upgrade System Time Change Data Clear Setup Colour Control	May shut do May install a May change May delete May make o May change	a new firmware version the time setting recording data changes anywhere on the Setup menu the picture settings PTZ cameras
Shutdown Upgrade System Time Change Data Clear Setup Colour Control PTZ Control	May shut do May install a May change May delete May make o May change May control May reset a	a new firmware version the time setting recording data changes anywhere on the Setup menu the picture settings PTZ cameras
Shutdown Upgrade System Time Change Data Clear Setup Colour Control PTZ Control Alarm-Out Control	May shut do May install a May change May delete May make o May change May control May reset a May view vi	a new firmware version the time setting recording data changes anywhere on the Setup menu the picture settings PTZ cameras
Shutdown Upgrade System Time Change Data Clear Setup Colour Control PTZ Control Alarm-Out Control Covert Camera View	May shut do May install a May change May delete May make o May change May control May reset a May view vi	a new firmware version the time setting recording data changes anywhere on the Setup menu the picture settings PTZ cameras larms deo images from covert cameras

DTR-60XX 33

May copy video images

System - Shutdown

Setup Menu	\Rightarrow	System	$ \Rightarrow $	Shutdown
------------	---------------	--------	-------------------	----------

System - Log out user1...

Setup Menu	$ \Rightarrow $	System	$ \Rightarrow $	Log out user1
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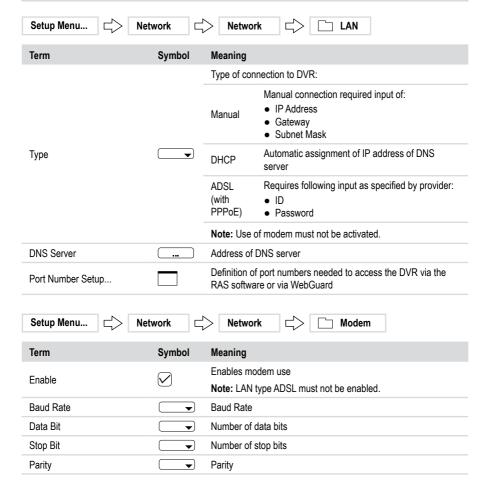
Network - Network

On the "Network" menu all settings required to ensure network access are made.

Setup Menu... Network Network Network

Term	Symbol	Meaning	
		Transmission	n bandwidth:
Transfer Speed		(bps)	bits per second
		(ips)	images per second
	•	Quality of pic	cture transmission via network (PAL):
		Very High	14,4 kB/picture
Quality		High	9,6 kB/picture
		Standard	4,8 kB/picture
		Basic	2,4 kB/picture
		Selecting Au	dio Channel
Remote Audio Channel	•	Select From	RAS

1 - 4



Setup Menu	rk 🖒	Network DVRNS
Term	Symbol	Meaning
Use DVR Name Service	\checkmark	Enables the DVR name service
DVRNS Server		IP address or domain name of DVRNS server DVRNS = Digital Video Recorder Name Service
Port		Port for DVRNS
Use NAT	\checkmark	Enables NAT (Network Address Translation) use
DVR Name		Name by which the DVR is to be registered with the DVRNS server
Check		Check DVR name for usability after entering
Help Desk		Information from help desk if DVRNS setting correct
Setup Menu	rk 🖒	Network
Term	Symbol	Meaning
Use WebGuard Service	\checkmark	WebGuard Service activated
Port		Port for the WebGuard Service

Network - Notification

On the "Notification" menu the method of notification is defined.

Setup Menu	Network	Notification
Term	Symbol	Meaning
Enable	\checkmark	Enables notification by e-mail
SMTP Server		IP address of SMTP server
Port		Port for SMTP server Default is port 25.
Use SSL/TLS	\checkmark	Activates the Encryption
Authentication		Login to SMTP server
Sender		E-mail address of sender
Recipient		E-mail address of recipient
Setup Menu	Network	Notification
Term	Symbol	Meaning
LAN	\checkmark	Enables notification of an RAS via LAN
No.		Number of IP address
IP Address		IP addresses of RAS PCs
Retry	•	Number of notification attempts by the DVR in the event of an error
Modem	\checkmark	Enables notification of an RAS via modem
Remote Server Phone Number		Telephone number of the modem on the notified RAS PC
Outside Line Call		Outside line code for external calls, if DVR's modem is connected to a PABX system
Callback Phone Number		Telephone number of DVR's modem The RAS PC contacts the DVR on this number.

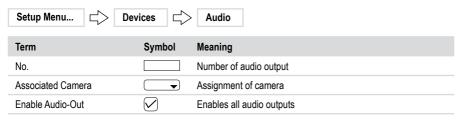
Devices - Camera

On the "Camera" menu the cameras are configured.

Setup Menu	Device Device	S Camera Settings	
Term	Symbol	Meaning	
No.	\checkmark	Activates the cameras	
Title		Name of camera	
		Visibility of recordings and camera data depending on user access privileges:	
		Normal All users see all camera data and all recordings	
Use	•	Covert 1 Users without relevant access see camera title, status symbol, but no recordings	
		Covert 2 Users without relevant access see only camera title, but no recordings	
		Quality of recorded images	
Resolution	•	Standard CIF	
		High 2CIF	
Setup Menu	□ Device	s Camera PTZ	
Term	Symbol	Meaning	
No.		Number of camera	
Product	•	PTZ camera type as per specified list	
ID		Unique ID of PTZ camera	
Port	•	Interface type of PTZ cameras	
		Settings as specified by PTZ camera manufacturer:	
		Baud Rate	
Setup		Data Bit	
		Stop Bit	
		Parity	

Devices - Audio

On the "Audio" menu the audio outputs are assigned to the cameras.



Devices - Alarm-Out

On the "Alarm-Out" menu the alarm outputs are configured.

- "Settings" tab: The alarm outputs are configured.
- "Schedule" tab: Time slots are defined in which the alarm outputs respond in specific ways.

Setup Menu	Devices	Settings
Term	Symbol	Meaning
No.		Number of alarm output
Title		Name of alarm output
		Contact method of alarm output:
Туре		NO Normally Open
		NC Normally Closed
Dwell		Duration of alarm signal
Setup Menu	Devices	S Alarm-Out Schedule
Term	Symbol	Meaning
Term No.	Symbol	Meaning Number of schedule entry
	Symbol	•
No.		Number of schedule entry
No. Day		Number of schedule entry Day of the week
No. Day Range		Number of schedule entry Day of the week Time range at 15-minute intervals
No. Day		Number of schedule entry Day of the week Time range at 15-minute intervals Response in defined period:
No. Day Range		Number of schedule entry Day of the week Time range at 15-minute intervals Response in defined period: Event Alarm in response to event

Devices - Display

Setup Menu...

On the "Display" menu the mode of on-screen display is configured.

Devices

- "OSD" tab: Specify what additional information is displayed on-screen.
- "Main Monitor" tab: Specify how the camera images are displayed on the main monitor.

Display

OSD

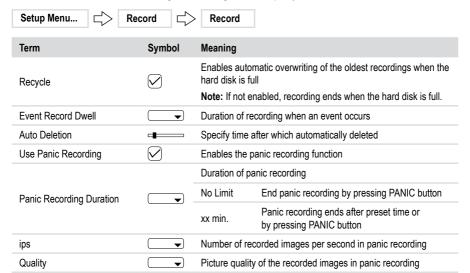
• "Spot Monitor" tab: Specify which cameras are displayed on the spot monitors.

Term	Symbol	Displayed symbol	Meaning
Status			Activates display of:
Remote Control	\checkmark	₽	Remote Control
Zoom	\checkmark	•	Visible when Zoom mode enabled
Network	\checkmark	品	Visible when DVR operating in a network
Freeze & Sequence	\checkmark	\$ 春	FreezeVisible when Sequence mode enabled
Screen Group	\checkmark	1/4	Displays number of groups, and their ID numbers
Free Space	\checkmark	è	Visible when Recycle mode enabled Remaining hard disk capacity, if Recycle mode not selected
Archive	\checkmark	2	Visible when archiving in progress
Date	\checkmark	-	Date
Time	\checkmark	-	Time
User Name	\checkmark	-	Display of user name
Camera			Activates display of:
No.	\checkmark	-	Display of camera number
Title	\checkmark	-	Display of camera title
Record	\checkmark	# 🛚 ⊙	Display of Record symbols
Audio	\checkmark	<)))	Audio
PTZ	\checkmark	PIZ	Visible when PTZ camera is displayed
Text-In	\checkmark	-	Display of character string
Transparency	4	-	Transparency of menu screens
OSD Margin		-	Distance of displayed symbols from screen margin

Setup Menu	Devices	Display		
Term	Symbol	Meaning		
		Modes of sequences in multiple playback:		
Mode	▼	Full Sequence All cameras are switched through sequentially.		
		Cameo Sequence Only the image at the bottom right is switched through; cameras in "Covert" mode are not displayed to users without "Covert" access.		
Interval	•	Time interval between picture refresh		
Event Monitoring On	\checkmark	Displays image of relevant camera in full-screen mode when an event occurs		
Setup Menu	Devices	Display		
Term	Symbol	Meaning		
No.		Number of spot monitor output		
Channels		Camera Selecting a camera		
Onamicis		Dwell Duration of display of the camera image		
Devices – Remote Control On the "Remote Control" menu the remote control function is configured. Setup Menu Devices Remote Control				
Term				
	Symbol	Meaning		
Port	Symbol	Meaning Interface type of remote control		
Port		•		
Port		Interface type of remote control		
Setup		Interface type of remote control Setup as specified by manufacturer:		
		Interface type of remote control Setup as specified by manufacturer: Baud Rate		
		Interface type of remote control Setup as specified by manufacturer: Baud Rate Data Bit		

Record - Record

On the "Record" menu the basic settings for recordings and their quality are made.



Record - Schedule

On the "Schedule" menu the schedule for recording is defined.



Term	Symbol	Meaning		
Schedule On	\bigcirc	Enables schedule entries Note: A recording is made only if schedule entries are enabled. Otherwise only panic recording is possible.		
No.		Number of	schedule entry	
Day	•	Day of the	week	
Range		Time range	at 15-minute intervals	
		Response:		
		No Record	-	
		Time	Always record in the defined time slot in the quality set for "Time" mode	
Mode	•	Event	Record only in case of event in the defined time slot in the quality set for "Event" mode	
		Time & Event	Always record in the defined time slot in the quality set for "Time" mode, also in case of event in the defined time slot in the quality set for "Event" mode	
Channels		Assignmen	t of cameras to schedule	
		Picture data	a settings in Time and Event modes:	
Settings		ips	Number of recorded images per second	
		Quality	Picture quality of recorded images	
		Picture data defaults in Time and Event modes:		
Default		ips	Number of recorded images per second	
		Quality	Picture quality of recorded images	

Record - Pre-Event

On the "Pre-Event" menu the settings for recording prior to the event are made.

Setup Menu	Record 🖒	> Pre-Event
Term	Symbol	Meaning
No.	\checkmark	Activates the cameras
ips	•	Number of recorded images per second prior to the event
Quality	•	Picture quality of the recorded images prior to the event
		Recording time prior to the event
Dwell		Note: The pre-event recording memory capacity is limited. Consequently, the maximum recording time prior to the event, the number of recorded images and picture quality are interdependent.

Record - Archive

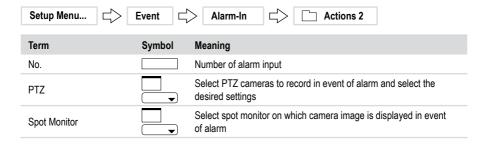
On the "Archive" menu the schedules and settings for archiving are entered.

Setup Menu	Record \Rightarrow	Archive	
Term	Symbol	Meaning	
Archive On	\checkmark	Enables the archivir	ng settings
Schedule			
Day	\checkmark	Day of week from w	hich to archive recordings
Range		Time range	
Archive Data Range			
		Start of archiving, fr	om:
From	✓	Last Archived	Time of last archiving
		xx/yy/200x	Defined date and time
		End of archiving, up	to:
То		Continue	No end
		xx/yy/200x	Defined date and time
Paguala	otin	Enables automatic of the archive medium	overwriting of the oldest recordings when is full.
Recycle		Note: If not enabled medium is full.	d, archiving ends when the archive

Event - Alarm-In

On the "Alarm-In" menu the alarm inputs and responses to events are configured.

Setup Menu	Event 🗖	→ Alarm-In	
Term	Symbol	Meaning	
No.	\checkmark	Enables the alarm inputs	
Title		Name of alarm input	
		Contact method of alarm input:	
Туре	•	NO Normally Open	
		NC Normally Closed	
Setup Menu	Event □	Alarm-In	
Term	Symbol	Meaning	
No.		Number of alarm input	
Record		Assignment of cameras to record in event of alarm These cameras must be in "Event" or "Time and Event" mode within the time slot: Setup Menu > Record > Schedule	
Alarm-Out		Assign and enable alarm outputs internal beep by DVR These alarm outputs and the internal beep must be enabled within the time slot: Setup Menu > Devices > Alarm-Out > Schedule	
		Assign and enable notifications:	
		Mail	
		Modem	
Notify		LAN 1 to LAN 5	
		Alert Window	
		The selected function must be enabled: Setup Menu > Network > Notification	



Event – Motion Detection

On the "Motion Detection" menu the motion-sensitive zones are defined and responses to events configured.

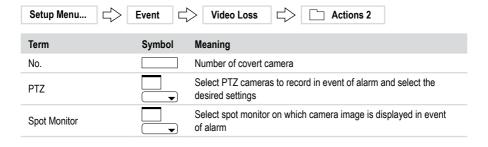
Setup Menu	Event	□ Motion	Detection _	> Carrier Settings	
Term	Symbol	Meaning			
No.	\checkmark	Enables motion detection for the camera			
		Sensitivity of motion	on detection:		
Sensitivity		Daytime			
		Nighttime			
		Left mouse button Click to select/or	functions: deselect	within the time slot e a zone for selection/del	etion/back
		Right mouse butto	on functions or me	enu in time slot to select b	olocks:
Zone.		Select	Select complete	e row of blocks	
2010		Clear	Clear selection	of a row	
		Reverse	Reverse selecti	on of a row	
		Select All	Select all blocks	3	
		Clear All	Clear selection	of all blocks	
		Reverse All	Reverse selecti	on of all blocks	
		Specify in how mag a minimum to trigg	•	ive blocks motion must be	e detected as
Min. Blocks		Daytime			
		Nighttime			
Zone View	\checkmark	Mark the motion-s	sensitive zones (re	ed in event of motion)	
Motion Ignoring		Time interval betw	veen 2 events log	ged as separate events:	
Interval		Never Eacl	h motion detection	n is logged as a separate	event.
Daytime Setup		Definition of "Dayt	ime" time range		

Setup Menu	□ Event □ □	Motion Detection
Term	Symbol	Meaning
No.		Number of alarm input
Record		Assignment of cameras to record in event of alarm These cameras must be in "Event" or "Time and Event" mode within the time slot: Setup Menu > Record > Schedule
Alarm-Out		Assign and enable alarm outputs internal beep by DVR These alarm outputs and the internal beep must be enabled within the time slot: Setup Menu > Devices > Alarm-Out > Schedule
Notify		Assign and enable notifications: Mail Modem LAN 1 to LAN 5 Alert Window The selected function must be enabled: Setup Menu > Network > Notification
Setup Menu	Event	> Motion Detection
Term	Symbol	Meaning
No.		Number of alarm input
PTZ		Select PTZ cameras to record in event of alarm and select the desired settings
Spot Monitor		Select spot monitor on which camera image is displayed in event

Event - Video Loss

On the "Video Loss" menu checking for covert cameras and the responses to events are configured.

Setup Menu	Event 🗅	Video Loss □ Settings
Term	Symbol	Meaning
		Sensitivity of check as to whether camera is covert:
Check Obscuration	-	Never not checked
		126 very sensitive
Setup Menu	Event 🗅	Video Loss
Term	Symbol	Meaning
No.		Number of covert camera
Record		Assignment of cameras to record in event of alarm These cameras must be in "Event" or "Time and Event" mode within the time slot: Setup Menu > Record > Schedule
Alarm-Out		Assign and enable • alarm outputs • internal beep by DVR These alarm outputs and the internal beep must be enabled within the time slot:
		Setup Menu > Devices > Alarm-Out > Schedule
		Assign and enable notifications:
		Mail
		Modem
Notify		LAN 1 to LAN 5
	_	Alert Window
		The selected function must be enabled: Setup Menu > Network > Notification



Event - Text-In

On the "Text-In" menu the text input device is defined and the responses to text input are configured.

Setup Menu	Event _	Text-In Settings
Term	Symbol	Meaning
No.		Number of text input device
Setup		Configuration of text input >>
Title		Name of text input
□ Setup		
Term	Symbol	Meaning
Port	•	Interface
		Setting as specified by manufacturer of text input device (ATM, cash-till etc.):
0.1		Baud Rate
Setup		Data Bit
		Stop Bit
		Parity
		Type of text input:
Text-In Product	•	Generic Text
		Epson
Transaction Start		Character string with which text input must start for the DVR to respond
Any Character	\checkmark	DVR responds to any character
Transaction End		Character string with which text input must end for the DVR to respond
0 more line(s)	•	Enables recording of n more lines
Line Delimiter		Line delimiter as specified by the text input device manufacturer: ^J for LF or ^M for CR
Ignore String		Character string in the text input which the DVR is to ignore All transmittable character strings are specified by the text input device manufacturer.
Case Sensitive	\checkmark	Case sensitivity according to text input device manufacturer's specification

Setup Menu	Event =	Text-In
Term	Symbol	Meaning
No.		Number of alarm input
Record		Assignment of cameras to record in event of alarm These cameras must be in "Event" or "Time and Event" mode within the time slot: Setup Menu > Record > Schedule
Alarm-Out		Assign and enable • alarm outputs • internal beep by DVR These alarm outputs and the internal beep must be enabled within the time slot: Setup Menu > Devices > Alarm-Out > Schedule
Notify		Assign and enable notifications: Mail Modem LAN 1 to LAN 5 Alert Window The selected function must be enabled: Setup Menu > Network > Notification
Setup Menu	Event ☐	Text-In
Term	Symbol	Meaning
No.		Number of alarm input
PTZ		Select PTZ cameras to record in event of alarm and select the desired settings
Spot Monitor		Select spot monitor on which camera image is displayed in event

Event - System Event

On the "System Event" menu the self-diagnostics and corresponding messages are configured..

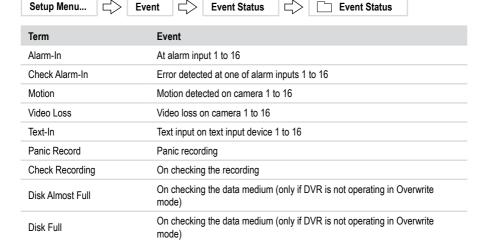
Setup Menu	Event \Box	System Event
Term	Symbol M	leaning
System	 	ystem self-diagnostics interval
Check Recording	S	etup Configuration of schedule >>
Check Alarm-In	□ Ir	nterval for checking Alarm Inputs
Setup		
Term	Symbol M	leaning
Schedule On	✓	nables schedule entries
No.	N	lumber of schedule entry
Day	▼ D	ay of the week
Range	T	ime range at 15-minute intervals
Interval	▼ C	hecking interval
Setup Menu	Event \Box	System Event
Term	Symbol	Meaning
Disk Bad Notify	_	Percentage of bad sectors on hard disk as from which an alarm is triggered
Disk Almost Full Notify	•	Percentage hard disk space available as from which "Disk Almost Full" alarm is triggered
Setup		Configuration of data media S.M.A.R.T. check Opens a window in which the frequency rate and time and a temperature limit (in Celsius or Fahrenheit) for the S.M.A.R.T. check can be specified. If the temperature limit is exceeded an alarm is triggered. For details of your hard disk's temperature limit refer to the manufacturer's manual.

Setup Menu	Even	System Event	Actions	
Term	Symbol	Meaning		
		Events (based on checks)	:	
		System	System check failed	
		Panic Record	Panic recording in progress	
		Check Recording	Recording check failed	
		Check Alarm-In	Check of alarm inputs failed	
Event		Disk Almost Full	Preset limit value for hard disk capacity reached	
		Disk Full	Hard disk full	
		Disk Bad	Preset limit value for number of bad sectors reached	
		Disk Temperature	Preset temperature limit reached	
		Disk S.M.A.R.T.	S.M.A.R.T. check failed	
Alarm-Out		Assign and enable alarm outputs internal beep by DVR Note: Not possible for sys	stem event and panic recording	
		Assign and enable notifications:		
		Mail		
		Modem (no	ot in case of system event)	
Notify		LAN 1 to LAN 5 (no	ot in case of system event)	
		Alert Window (no	ot in case of system event)	
		The selected function must Setup Menu > Network		

Event - Event Status

The "Event Status" menu indicates the status of all possible events:

- · Grey text: Event detection not enabled
- · White text: Event detection enabled
- Flashing border: Message acute event for 5 sec
- · Yellow field: Pending event



Gottap monam	Liverit outlied To ottorage	
Term	Meaning	
Type	Memory type	
Disk Bad	Data carrier status	
Temperature	Data carrier status	
S.M.A.R.T.	Result of S.M.A.R.T. check	

Setup Menu... Fvent Fvent Status Storage

WebGuard - WebWatch controls

The following diagram and table set out the functions on the Web Watch:



No.	Designation	Function
1	(E)	WebGuard Logging out
2	9	Open Search (WebSearch)
3	DVR	Date/TimeIP AddressUser Name
4		Image display modes
5	Display	Change camera name and image aspect ratio
6	1 To 16	Select cameras
	23	Image optimisation
7	③	PTZ camera functions
	8	Activate Alarm Outputs
8	口	Save current recording data
9	88	Set up image drawing mode
10	Display	Event log

WebGuard - WebSearch controls

The following diagram and table set out the functions on the Web Search:



No.	Designation	Function
1		WebGuard Logging out
2	③	Open Display (WebWatch)
3	DVR	Display date/time, IP address and user name
4	e e	Zoom On/Off and image optimisation
5	Display	Change camera name and image aspect ratio
6		Playback functions
7		Image display modes
8	Display	Time bar calendar search and event log
	•	Search for date/time
9	©	Calendar search
	夫	Event Search
10	2	Reload recording data
11	88	Set up image drawing mode
		Save any video clip as an EXE file
12		Save current image as BMP or JPEG file
	<i>6</i>	Print

Using WebGuard

WebGuard permits the following, using an Internet connection

- View current video images
- Search and view recorded records

Requirements:

- The Internet connection is set up and the WebGuard service is activated.
- A PC with Internet access to the DVR must be available.
- Internet Explorer must be installed on the PC.

Using WebGuard

Step	Action
1	Ask your System Administrator about the current access data.
2	Start Internet Explorer. Enter the access data in the address line, e.g.: 192.168.1.129:12088
3	Enter your User Name (admin), Password (blank) and if necessary the port addresses.
4	Select Login. Result: WebGuard window is opened.

Specifications DTR-6008

Model	DTR-6008/250CD	DTR-6008/500CD	DTR-6008/750CD		
EDP No.	71942	71961	71962		
Video standard	PAL/NTSC (auto detectio	PAL/NTSC (auto detection)			
Remark	-				
Event logs	Unlimited number of entri	es for alarm/event/text mess	sages, loss of signal		
Security against unauthorised use	Key locking, 64 user grou	Key locking, 64 user groups with programmable access (up to 256 users)			
Transmission rate	100 images per sec (PAL)			
Alarm triggering	E-mail, remote SW (RAS)				
Alarm activation	Automatic multi-screen di	splay of alarm images progr	ammable		
Remote Control	Wireless IR remote contro	ol (included)			
Text display interface	ATM/POS, 10 channels m	nax.			
Monitor display	Real-time playback: 25 fie (NTSC) per camera	eld images per sec (PAL), 30) field images per sec		
Covert camera mode	Programmable				
Time synchronisation	Network time log, network	time server			
System change log	Up to 5000 entries for login/logout, configuration changes, remote access, change of signal connection, disk read/write errors				
Zoom function	2x~4x				
Playback	Frame image, 4-/8-channel split				
Post-alarm recording	Up to 15 minutes				
VGA					
Control interface	RS-485 port for PTZ control (verified logs: eneo-Fastrax, Pelco P/D) or keyboard connection for remote control				
Activity detection	Programmable 16 x 16 (2	56) grid, 5 sensitivity setting	S		
Simplex/Duplex/Triplex/Pentaplex mode	Triplex				
Video inputs	8x 1 Vp-p, (F)BAS, 75 Oh	nm, BNC, loop-through			
Monitor outputs	4x Spot-Outputs 1Vss, (F)BAS, 75 Ohm, BNC, 1x VGA				
Video output	1x 1 Vp-p, (F)BAS, 75 Ohm, BNC; 1x S-VHS, S= 1 Vp-p, C= 0.3 Vp-p, 75 Ohm				
Audio input	4x amplifier input, cinch				
Audio output	1x amplifier output, cinch				
Resolution	720 x 576 pixels (display)				
Compression method	MPEG-4, higher compression rates with same picture quality enable maximum recording times				
Recording speed	200 field image per sec at CIF resolution (336 x 272 pixels/PAL), 100 field image per sec at 2CIF resolution (672 x 272 pixels/PAL)				

Specifications DTR-6008 (continued)

Model	DTR-6008/250CD	DTR-6008/500CD	DTR-6008/750CD	
Picture size	Basic: 2/2.4 kB; Standard: 4/4.8 kB; High: 8/9.6 kB; Very high: 12/14.4 kB (NTSC/PAL). 2 times larger in High Resolution mode			
Hard disk capacity	250 GB ATA hard disk, expandable to as many as 3 internal hard disks	500 GB ATA hard disk, expandable to as many as 3 internal hard disks	750 GB ATA hard disks	
Playback speed	200 field image per sec a	t CIF resolution (336 x 272 p	pixels/PAL) and Duplex	
Export of picture data	via USB 2.0, SCSI port, O Network data export: Clip			
Alarm inputs	8x TTL, programmable as	s NC/NO (terminal strip)		
Alarm outputs	8x TTL, open collector (te	erminal strip)		
Alarm reset	2~4 TTL (terminal strip)			
Alarm messages	System error, hard disk e	rror		
Pre-alarm recording	Up to 30 minutes			
Recording medium	ATA-2 (EIDE) hard disks, built-in CD-RW writer			
Archiving	With EIDE, SCSI and USB hard disks. Real-time mirroring			
Menu languages	German, English, Italian, French, Spanish, Polish, Russian, Czech, Hungarian			
Ethernet port	10Base-T, 100Base-TX, RJ-45			
Remote software	For remote administration and image search function (RAS plus included)			
Ports	3x USB, 1x RS-485, 1x RS-232 (remote control/configuration or modem), 1x SCSI for memory expansion			
Power Supply	100 VAC~230VAC, 50/60Hz			
Power consumption	approx. 150 W			
Temperature range	5°C to 40°C			
Housing	Metal with plastic front panel			
Colour	Pantone 427C			
Dimensions (H x W x D)	88 x 430 x 405 mm			
Weight	approx. 7.4 kg			

Specifications DTR-6016

Model	DTR-6016/250CD	DTR-6016/500CD	DTR-6016/750CD		
EDP No.	71929	71959	71963		
Video standard	PAL/NTSC (auto detectio	PAL/NTSC (auto detection)			
Remark	-				
Event logs	Unlimited number of entri	es for alarm/event/text mess	sages, loss of signal		
Security against unauthorised use	Key locking, 64 user grou	Key locking, 64 user groups with programmable access (up to 256 users)			
Transmission rate	100 images per sec (PAL)			
Alarm triggering	E-mail, remote SW (RAS)				
Alarm activation	Automatic multi-screen di	splay of alarm images progr	ammable		
Remote Control	Wireless IR remote contro	ol (included)			
Text display interface	ATM/POS, 10 channels m	nax.			
Monitor display	Real-time playback: 25 fie (NTSC) per camera	eld images per sec (PAL), 30) field images per sec		
Covert camera mode	Programmable				
Time synchronisation	Network time log, network	time server			
System change log	Up to 5000 entries for login/logout, configuration changes, remote access, change of signal connection, disk read/write errors				
Zoom function	2x~4x				
Playback	Frame image, 4-/9-/16-channel split				
Post-alarm recording	Up to 15 minutes				
VGA					
Control interface	RS-485 port for PTZ control (verified logs: eneo-Fastrax, Pelco P/D) or keyboard connection for remote control				
Activity detection	Programmable 16 x 16 (2	56) grid, 5 sensitivity setting	S		
Simplex/Duplex/Triplex/Pentaplex mode	Triplex				
Video inputs	16x 1 Vp-p, (F)BAS, 75 C	hm, BNC, loop-through			
Monitor outputs	4x Spot-Outputs 1Vss, (F)BAS, 75 Ohm, BNC, 1x VGA				
Video output	1x 1 Vp-p, (F)BAS, 75 Ohm, BNC; 1x S-VHS, S= 1 Vp-p, C= 0.3 Vp-p, 75 Ohm				
Audio input	4x amplifier input, cinch				
Audio output	1x amplifier output, cinch				
Resolution	720 x 576 pixels (display)				
Compression method	MPEG-4, higher compression rates with same picture quality enable maximum recording times				
Recording speed	400 field image per sec at CIF resolution (336 x 272 pixels/PAL), 200 field image per sec at 2CIF resolution (672 x 272 pixels/PAL)				

Specifications DTR-6016, continued

Model	DTR-6016/250CD	DTR-6016/500CD	DTR-6016/750CD
Picture size	Basic: 2/2.4 kB; Standard: 4/4.8 kB; High: 8/9.6 kB; Very high: 12/14.4 kB (NTSC/PAL). 2 times larger in High Resolution mode		
Hard disk capacity	250 GB ATA hard disk, expandable to as many as 3 internal hard disks	500 GB ATA hard disk, expandable to as many as 3 internal hard disks	750 GB ATA hard disks
Playback speed	400 field image per sec at	t CIF resolution (336 x 272 p	oixels/PAL) and Duplex
Export of picture data	via USB 2.0, SCSI port, C Network data export: Clip		
Alarm inputs	16x TTL, programmable a	as NC/NO (terminal strip)	
Alarm outputs	16x TTL, open collector (t	terminal strip)	
Alarm reset	2~4 TTL (terminal strip)		
Alarm messages	System error, hard disk er	rror	
Pre-alarm recording	Up to 30 minutes		
Recording medium	ATA-2 (EIDE) hard disks, built-in CD-RW writer		
Archiving	With EIDE, SCSI and USB hard disks. Real-time mirroring		
Menu languages	German, English, Italian, French, Spanish, Polish, Russian, Czech, Hungarian		
Ethernet port	10Base-T, 100Base-TX, RJ-45		
Remote software	For remote administration and image search function (RAS plus included)		
Ports	3x USB, 1x RS-485, 1x RS-232 (remote control/configuration or modem), 1x SCSI for memory expansion		
Power Supply	100 VAC~230VAC, 50/60Hz		
Power consumption	approx. 150 W		
Temperature range	5°C to 40°C		
Housing	Metal with plastic front panel		
Colour	Pantone 427C		
Dimensions (H x W x D)	88 x 430 x 405 mm		
Weight	approx. 10.2 kg		

Accessories

EDP No.	Short description
71857	250GB hard disk for DLR/DXR/DTR and DCR
71919	500GB hard disk for DLR/DXR/DTR and DCR
71970	CD/DVD Writer DVD+/-RW 48x/18x, CD/DVD
74088	System keyboard with 3-axis joystick
74092	System keyboard with joystick, 5" monitor
71902	USB mouse for DVR series DXR, DLR3

Supported PTZ cameras

Manufacturer	Designation		
Costar	CDC 2500		
Dyna Color	CDC2400		
Chilsung	CRD-J6416		
Fine	CRR-1660s		
Pelco	D-log		
Dennard	Dennard2060		
Tokina	DMP-1223		
Dongyang Unitech	DRX-500		
Dongyang	DY-255RXC		
Sensormatic	Delta Dome II/Ultra IV		
Eneo	Fastrax		
Philips	G3 Basic AutoDome		
LG Honeywell)	GRU604A		
JVC	TK-S576		
Sensormatic	Ultra VI		
Canon	VC-C4		
Canon	VC-C50i		
Inter-M	VRX-2201		
Vicon	Vicon		
Hitron	22x AF Zoom		
360Vision	VisionDome		
Panasonic	WJ-SX550A		
Panasonic	WV-CS850/854		
CBC	ZC-SD622J		
Samsung	Zoom Camera		
Honeywell	HDC-655		
LG Honeywell	HSD-25X		
Honeywell	HSDN-251		
Idis	IRX-100		
Ultrak	KD6		
Ultrak	KD6 Z-series		
Kalatel	KTD-312		
LG	LPT-A100L		
	Novus-C		
Samsung	MRX-1000		

Manufacturer	Designation		
Ademco Video	Orbiter Microsphere		
SysMania	ORX_1000		
Linlin	PIH-717		
ELMO	PTC-200C/CVAS		
ELMO	PTC-250C		
Pacom	Pacom 2036		
Dongyang	Power Controller		
Sungjin	Receiver/MPU		
Costar	SIC722V		
Samsung Techwin	SPD 1600		
Samsung	Samsung Dome		
Pelco	Spectra Dome		
Samsung Techwin	SRX-100B		
Hitron	Speed Dome		

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Notes on disposal

Correct disposal of this DVR



WEEE (Waste Electrical & Electronic Equipment)

Applicable in the member states of the European Union and other European countries with a separate collection system

The marking on the DVR and on the documentation stipulates that it must not be thrown away in normal domestic waste at the end of its useful life.



General rules

- Avoid uncontrolled waste disposal: Please dispose of this DVR separately from other waste, so as to avoid posing a hazard to the environment and to human health.
- ▶ Recycle the DVR in order to aid the sustainable reuse of material resources.

Private users

► Contact the retailer from whom you purchased the DVR or your competent local authority to find out how you can recycle the DVR in an environmentally friendly way.

Commercial users

This DVR must not be thrown away with trade waste. To clarify the conditions of disposal, check your purchase contract or contact your supplier.



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